

What is claimed is:

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1. A mask frame assembly for securing a tension mask inside a picture tube, the mask assembly comprising:
a support blade structure formed of a material having a first coefficient of thermal expansion;
an insert member formed of a material having a second coefficient of thermal expansion, the insert member having a plurality of apertures positioned along the length of the insert member ; and,
fastening portions, at least one fastening portion connecting said insert member to said support blade structure at a generally central location of the insert member and said remaining fastening portions connecting said insert member to said support structure through said apertures whereby the opening of said apertures are dimensioned to have a respective clearance for loosely receiving a respective fastening portion.

10 2. The mask frame assembly of claim 1 wherein the support structure further comprises first and second interlocking halves.

15 3. The mask frame assembly of claim 2 wherein the fastening portions comprises tabs located along an edge of the first half.

20 4. The mask frame assembly of claim 1 wherein the opening of said apertures are dimensioned to permit the fastening portions to slide within the apertures along the length of the insert member permitting the insert member to move relative to the support blade structure.

25 5. The mask frame assembly of claim 3 wherein each tab comprises a narrow portion and a wide portion.

6. The mask frame assembly of claim 5 wherein the narrow and wide portions are separated by a stop surface.

25 7. The mask frame assembly of claim 6 wherein the stop surface abuts a surface of the second half.

30 8. The mask frame assembly of claim 1 wherein the fastening portions comprise fasteners passing through the apertures of the support structure.

9. A support blade structure for a tension mask frame assembly, the support blade structure comprising:

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an insert member connected to the support blade structure at a generally central location of the insert member, the insert member further comprising a plurality of apertures extending from the central location along its length; and,

fastening portions extending through at least one of said apertures to connect

5 the insert member to the support blade structure wherein the apertures are dimensioned to be larger than the fastening portions to permit movement of the support structure relative to the insert member along the length of the insert member.

10. The support blade structure of claim 9, wherein the insert member and the support structure are formed of a material being of different coefficient of thermal

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